1967
1969

STATE COLLEGE
AT
WORCESTER

The Commonwealth of Massachusetts

State College
AT
Worcester

ACCREDITED BY:

National Council of Accreditation of Teacher Education
New England Association of Colleges and Secondary Schools

MEMBER OF:

Massachusetts Council on Teacher Education
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The Commonwealth of Massachusetts

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(Affiliated with State College for the purpose of observation and participation)

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DORIS M. JOYCE	English
JAMES F. LYONS	Social Studies
STANLEY G. NELSON	Science
FRANK L. WARREN	Social Studies

May Street School

HELEN KENNEY	Kindergarten
GERTRUDE C. SULLIVAN	Grade 3
BARBARA A. HAYES	Grade 5

Tatnuck School

WINNIFRED C. KENNEDY	Principal
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CARMILLE C. MESALE	Grade 2
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DONALD F. MORAN	Grade 6

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VINCENT PICCOLO	Librarian
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COLLEGE CALENDAR
1967–1968

September 6–11, 1967	Orientation of Freshmen
September 11, 1967	Registration of upper classmen
September 12, 1967	Classes begin
October 12, 1967	Columbus Day—no classes
November 22, 1967	Thanksgiving recess begins at noon
November 27, 1967	Classes resumed at 9 A.M.
December 15, 1967	Christmas recess begins at 5 P.M.
January 2, 1968	Classes resumed at 9 A.M.
January 8–18, 1968	Semester examinations
January 19, 1968	No classes
January 22, 1968	Second semester begins
February 16, 1968	Winter recess begins at 5 P.M.
February 26, 1968	Classes resumed at 9 A.M.
April 12, 1968	Spring recess begins at 5 P.M.
April 22, 1968	Classes resumed at 9 A.M.
May 20–29, 1968	Final examinations
May 30, 1968	Memorial Day—No Classes
May 31, 1968	Class Day
June 1, 1968	Alumni Day
June 2, 1968	Baccalaureate
June 3, 1968	Commencement

1968–1969

September 9–16, 1968	Orientation of Freshmen
September 16, 1968	Registration of Upper Classmen
September 17, 1968	Classes begin
November 11, 1968	Veteran's Day—no classes
November 20, 1968	Thanksgiving recess begins at 12:30
November 25, 1968	Classes resumed at 8:30
December 18, 1968	Christmas recess begins at 5 P.M.
January 2, 1969	Classes resumed at 8:30
January 15–24, 1969	Semester examinations
January 26, 1969	No classes
January 27, 1969	Second Semester begins
February 14, 1969	Winter recess begins at 5 P.M.
February 24, 1969	Classes resumed at 8:30
April 4, 1969	Good Friday—no classes
April 11, 1969	Spring recess begins at 5 P.M.
April 21, 1969	Classes resumed at 8:30
May 20–29, 1969	Final examinations
May 29, 1969	Class Day
May 30, 1969	Memorial Day—no classes
May 31, 1969	Alumni Day
June 1, 1969	Baccalaureate
June 2, 1969	Commencement

THE HISTORY AND DEVELOPMENT OF STATE COLLEGE AT WORCESTER

"The design of the normal school is strictly professional, that is, to prepare in the best possible manner the pupils for the work of organizing, governing and teaching the public schools of the Commonwealth. . . . To this end there must be the most thorough knowledge; first of the branches of learning required to be taught in the school, second, of the best methods of teaching these branches, and third, of right mental training."

Thus the Massachusetts State Board of Education, by a vote passed May 6, 1880, stated the design and purpose of Worcester Normal School. Through the years a constancy of purpose and a devotion to the ideals and standards of suitable and adequate teacher preparation have motivated and directed the growth of the State College. In 1960 in line with the growing need for more opportunities for higher education for the students of Massachusetts, the Legislature authorized that the college should be known as State College at Worcester.

Buildings of the College:

The Worcester School Board at its meeting of November 1, 1870, appointed a committee "to take such action as may be necessary to secure the establishment of a State Normal School in this city." The first building, designed to accommodate 200 students, was erected on a five-acre tract of land at Eastern Avenue and Normal Street. In 1896 a new gymnasium was built adjoining the main building. By 1928 the enrollment of 285 students was beyond the capacity of the existing building, so that in 1929 the Legislature authorized the construction of a new building. The following year the city purchased land at Chandler and May Streets and presented it to the State for the new college. The building was dedicated in April, 1932. At that time the name of the school became State Teachers College at Worcester.

In 1942 a large tract of land was deeded to the college; this land bordering the campus protected it from encroaching building developments and allowed space for additional facilities. In 1958 the construction of a new building and the remodeling of the present building have provided additional library, classroom, laboratory, gymnasium and recreation facilities.

In 1965 an additional building to provide more laboratories including a language laboratory, classrooms and auditorium was completed. Future plans include a separate library building.

Students:

In 1874 a student body of sixty-nine entered the school; they had been accepted as qualified from ninety applicants, and "none were admitted who did not show intelligence, aptitude and enthusiasm for teaching." On July 12, 1876, the first class of ten students was graduated. Since that time graduates have taught throughout the United States and have made valuable contributions to the educational profession. Since the foundation of the Alumni Association in 1880, there have been many tangible evidences of the graduates' interest, support, and cooperation.

Faculty:

E. Harlow Russell, the first principal with a faculty of five members, was a pioneer in the investigation of the child as a problem of instruction and helped to advance the study and knowledge of child life. In line with these studies, the students engaged in systematic observation in schools and in actual practice in teaching under the joint supervision of the city superintendent of schools and of the faculty of the college. With slight modifications this practice has been retained through the ensuing years with the close cooperation of the school staffs in the environs of Worcester. At the present time there are approximately one hundred members on the college faculty with backgrounds of preparation and experience from a diversity of educational and professional sources.

Curricula:

From 1874 to 1921, both two-year and three-year courses were offered. In 1921 the three-year course became a four-year course with the degree of Bachelor of Science being given. In 1929 the two-year course was dropped. In 1935 all entering students were required to spend four years with the degree of Bachelor of Science in Education being granted. In 1947 the right to grant the Master of Education degree was awarded to the college. Graduate courses have been offered in late afternoon and evening extension courses and at summer school in order to facilitate the in-service program of training for teachers. The Board of Education empowered the college to grant the Bachelor of Arts degree in 1959 and subsequently the name of the college was changed to State College at Worcester.

Firsts:

State College at Worcester has a number of "firsts" of which it is justifiably proud. It was the first women's college in Worcester to offer a bachelor's degree. It was the first Massachusetts teachers college to have a chapter of Kappa Delta Pi, the national honor society in education. It pioneered in offering courses in early childhood education. It was the first teachers college in Massachusetts to be accredited by the American Association of Colleges for Teacher Education. In addition to this accreditation by the later-named National Council for Teacher Education, the college was accredited by the New England Association of Colleges and Secondary Schools in 1957.

Future:

The future of State College at Worcester points to an ever-expanding program of professional and material growth. In September 1966, over 1500 students registered at the college and the trend is toward a substantial increase in future years. Supplementary courses to meet the complex societal and professional demands for teachers will be added. Additional facilities and materials will be provided for rich and varied learning experiences. In the future as in the past State College at Worcester will continue to provide high standards of service and support to the professional preparation of teachers.

CURRICULA OFFERED

Undergraduate Courses Leading to Bachelor of Science in Education Degree

1. A four-year curriculum preparing for teaching in the early childhood education field, and Library Science (in elementary school).
2. A four-year curriculum preparing for teaching in the elementary field.
3. A four-year curriculum preparing for teaching in the secondary field.
4. A one-year curriculum for graduates of liberal arts colleges, leading to a Bachelor of Science in Education Degree.

During the first two years the emphasis is on general education to provide a rich background. Decision concerning the selection of curriculum is made at the end of the freshman year.

English, French, Spanish, Biology, History, Mathematics, Chemistry and Physics are major fields in the junior and senior high school curriculum. Each student in the secondary curriculum prepares in one major and one minor field. Any of the above fields may be a minor field. At least twenty-four semester hours must be earned in a major field and eighteen semester hours in a minor field.

Undergraduate Courses Leading to Bachelor of Arts Degree

Since September, 1963, eight major programs have been offered in the Bachelor of Arts curriculum. The majors are Biology, English, History, Mathematics, foreign language (French or Spanish), Physics, and Chemistry. At least 24 semester hours must be earned in a major field. The minor may be in education or in a related subject matter area.

Graduate Courses Leading to the Master of Education Degree

Beginning in September, 1966, the quantitative requirements for the graduate degree which is offered regularly at Worcester State College will include thirty-three semester hours in graduate courses, in twenty-seven of which the honor marks of "A" or "B" must be earned. Of the thirty-three semester hours of credit required, twenty-seven must be earned in graduate courses on the campus of Worcester State. The remaining six may be taken in approved off-campus extension courses or may be transferred from approved graduate schools. After admission to the program, courses taken off-campus for graduate credit must be approved in advance in response to written request for such approval.

The regulations require that credentials of all prior collegiate study, letters of application for admission to the program and of recommendation from qualified individuals, must be received by the Director prior to a conference. A program of study must be arranged in advance for each student who plans to matriculate. The Worcester State College pattern has been constructed by its Committee on Graduate Study and all graduate students must arrange an early conference with the department representative of their area of concentration, prior to the completion of their written application for matriculation. Nine semester hours of graduate work-on-campus must be completed with a grade of "B" or better in the following areas:

1. Research in Education
2. Advanced Philosophical Foundations of Education
   or
   Advanced Psychological Foundations of Education
3. One course in the chosen area of concentration.

Copies of the Guideline of Requirements Leading of the Degree of Master of Education, and of the graduate courses being offered currently may be secured by addressing inquiries to the Director of Continuing Studies.

REQUIREMENTS FOR ADMISSION

I. General Requirements

Every candidate for admission as a regular student must meet the following requirements:

A. Graduation from high school with 16 units of work or equivalent preparation.

B. Successful completion of the College Entrance Examination Board Scholastic Aptitude Test and three Achievement Tests. One Achievement Test must be in English. The writing sample cannot be accepted in lieu of an Achievement Test. Applicants should contact the college of their choice to ascertain the Achievement Tests required for the program selected.

C. An admission application submitted after the close of the first marking period of the senior year and the high school record to the college. *Applicant must arrange for forwarding transcripts and College Board scores to the college(s) of his choice.*

D. Good health as evidenced by a physical examination report by personal physician.

E. A personal interview may be required by the college.

F. Payment of $5.00 Application Fee for each application.

II. Early Acceptance

An applicant may be accepted by a college on the basis of the first quarter or marking period of the senior year if he has:

A. Completed successfully the Scholastic Aptitude Test and Achievement Tests.

B. A 3.0 (B) average in the highest 16 units of high school work.

1. Eight units must be as follows:

English (including Grade 12)	4 units
College Preparatory Mathematics	2 units
American History and Government	1 unit
Biology, Physics or Chemistry	1 unit
Applicants for Bachelor of Arts program must also present in a foreign language.	2 units

2. The 16 units must be distributed so that the number in any field will not exceed the following: English—4; social studies—4; science—4; foreign language—7 (no credit accepted for less than 2 units in a language); mathematics—4; business—2; fine arts and industrial arts—2; home economics—2.

C. Early acceptance date, January 15, 1968.

III. Regular Acceptance

A. A student not eligible for early acceptance may qualify for regular acceptance if he meets the general requirements and has the following high school units:

English (including Grade 12)	4 units
Mathematics	2 units
American History	1 unit
Science	1 unit

B. Applicants for the Bachelor of Arts program must also present 2 units in a foreign language.

IV. Admission to Advanced Standing

Applicants for admission to advanced standing or seeking transfer of credits from other colleges and universities must meet the general admission requirements and must submit official transcripts and letters of recommendation from the deans of all post-secondary institutions attended.

V. Place and Time of Examinations

Candidates applying for admission by examination may take the College Board Examinations at any of the centers where these examinations are regularly given.

The Bulletin of Information, obtainable without charge from the College Entrance Examination Board, contains rules regarding applications, fees, reports, and the conduct of the tests; lists of examination centers; and an application blank bound in. This application blank may be used for any College Board Examination.

Candidates should make application by mail to the College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey 08540.

REGULATIONS FOR OFF-CAMPUS BOARDING STUDENTS

All students who board away from their homes during their attendance at the college are required to live in houses recommended by the college. Arrangements should be made with the deans of students.

All women students desiring to secure accommodations for rooming and boarding in the city should apply to the Dean of Women. Since there is no boarding hall, there is a list of approved private homes for this purpose. They have been inspected by the Dean and full information concerning them can be obtained at her office.

The college recommends houses in Worcester where board and room may be obtained at reasonable price. These houses in addition to being suitable in other respects as homes for students meet the following conditions which are prescribed by the State Department of Education.

They receive no boarders other than students and instructors of the college; the same house does not receive both men and women students; the number of students in each house is limited to a small family group.

REQUIREMENTS FOR PROMOTION AND GRADUATION

1. The marking system in effect at the College consists of the letter grades A, B, C, D, E.

   "A" is indicative of superior work at the collegiate level; "B" indicates very good work; "C" indicates good work; "D" indicates poor work, and "E" indicates unsatisfactory work.

   An *Incomplete* grade can only be given with the approval of the Dean of Studies. A course may not be marked *Incomplete* unless 80 per cent of the class work has been done at the time of discontinuance. Incomplete grades must be made up within eight weeks after the opening of the following semester.

2. An "E" grade is never removed from the student's record. The subject must be repeated and passed. Subjects continuing for more than one semester in which an "E" has been received must be successfully repeated before the student may take advanced work.

   In the case of electives, other courses approved by the Dean of Studies must be passed either in summer session or during the regular college year.

3. Each student's marks are evaluated each semester on a quality point basis. A is equivalent to 4; B to 3; C to 2; D to 1; E to 0.

   The number of quality points a student receives in a course is determined by multiplying the total number of semester hours by the corresponding number of quality points. For example, the student receives an "A" in English which is a 3 credit course, therefore 4 x 3 = 12 quality points.

   The quality point average for a semester is computed by dividing the total number of quality points by the total number of semetser hours.

4. Students with an average of less than 1.0 at the end of any semester may be dropped from the College. They may be permitted to re-enter with permission of the Director of State Colleges on the recommendation of the President, for such reasons as illness, home difficulties or other extenuating circumstances of a serious nature.

   To proceed from the Freshman to the Sophomore year, the student must achieve a quality point score of 1.50. To proceed from the Sophomore to the Junior year, the student must have a quality point score of 1.75. To proceed from the Junior to the Senior year, the student must have a quality point score of 2.0.

5. The cumulative point average of 2.0 for four years is required for graduation.

6. The determination of quality points is made at the end of each college year. The number of quality points is not affected by grades in courses subsequently taken and passed.

7. Incomplete grades must be made up within eight weeks after the opening of the following semester. (No course may be marked "incomplete" unless 80 per cent of the work has been done at the time of discontinuance.)

EXPENSES

The following summary indicates as nearly as possible the regular expenses for which each student must plan in an annual budget.

I. Fee for Residents of Massachusetts

$200.00 a year; $100.00 to be paid at the opening of the college year in September and $100.00 at the opening of the second semester.

II. Fee for Non-Residents of Massachusetts

$600.00 a year: $300.00 to be paid at the opening of the college year in September and $300.00 at the opening of the second semester.

III. Fee for All Students

Each applicant for admission to the State College at Worcester must pay a fee of $5.00. Following notification of acceptance of admission, a registration fee of $20.00 must be paid which will be deducted from the tuition of students who attend and will be forfeited by those who do not attend.

Refunds for students leaving the college within six weeks after the beginning of the semester will be based on the regularly-established schedule of refunds, minus the registration fee. This regulation became effective for students entering on or after September 1, 1955.

IV. Additional Expenditures for All Students

A student assessment of $30.00 is charged each student, payable at the beginning of first semester. This fee is to cover the following items for the entire year:

1. Shower fee
2. College parties
3. Admission to all public performances of the Dramatic and Glee Clubs
4. College publications
5. Benevolences
6. Expenses of Student Advisory Council
7. Expenses of New York Conference
8. Expenses of miscellaneous activities
9. Admission to athletic contests
10. Class dues

V. Textbooks and Supplies

Expense of all necessary textbooks and supplies is expected to cost approximately $100.00 per year.

VETERANS EDUCATION

The College is an approved institution for providing education for the returned veteran under Public Laws No. 346, No. 16, and No. 550.

SCHOLARSHIPS FOR STUDENTS

For Incoming Freshmen and Upperclassmen

The William B. Aspinwall Scholarship
The M. Harriette Bishop Scholarship
The Nancy Burncoat Scholarship
The Gold Star Scholarship (Daughter or Son of Veteran only)
The Alumni Scholarship
The Tryphosa Bates-Batcheller Scholarship
The Esther Forbes Scholarship
The Newman Club Scholarship
The Olive Higgins Prouty Scholarship
The Student Christian Association Scholarship
The Elizabeth V. Foster Scholarship

For Upperclass Woman Student

The Esther C. Averill Scholarship

Students are selected for these scholarships on the basis of scholarship and need. The number of scholarships awarded is determined each year by the Scholarship Committee. In addition to these outright grants, the President of the College has at his disposal funds which may be borrowed by deserving students according to their needs. Applications for scholarships should be made by April 1.

STUDENT ACTIVITIES

There are many opportunities for students to take an active part in extra-class activities while in college. Most of the organizations are open to all students. It is the intent of the college to have a sufficient variety of activities which are suited to the needs and interests of the students. Many of the club periods are scheduled during the school day and meetings are held frequently.

It is hoped that each student will examine the program and purposes of the various clubs and organizations, then decide those to which he may make the greatest contributions and from which he will derive the most benefit as a person and as a prospective teacher.

Class Organization

The first organization to which every student belongs when he enters college is his class. Officers are chosen and a program of activities is inaugurated. Although many of these are of a social nature, there are numerous opportunities for the student to participate and to gain experience in working with the administration, faculty, and fellow classmates.

Athletics

The athletic activities are promoted and organized by the men's and women's athletic associations. Intra-mural games and other recreational activities are sponsored.

The College is a member of the New England State College Conference, and varsity basketball and baseball are played by the men in conjunction with other state colleges in the New England area.

Music

One of the largest organizations of the college is the choir. This is made up of men and women who are selected on a try-out basis. In addition to the Christmas and Spring concerts, the choir frequently participates in exchange concerts and programs given at hospitals and other civic organizations.

In addition, there is the Women's Glee Club. A wide variety of musical types and styles is sung by women who are admitted by audition during the first two weeks of each semester.

Other ensembles, both vocal and instrumental, are encouraged by the music faculty.

Publications

For the student who likes to write and who may have written previously for school publications, the "Acorn," the college newspaper, and the "Oakleaf," the college yearbook, provide opportunity for additional experience in journalism. Both publications serve a valuable purpose in recording the highlights of the college years.

Education Associations

There are two educational organizations at the college which offer professional association for the prospective teacher. The organizations provide programs of social and educational interest with students participating at the local, state, and national levels.

The Association for Childhood Education International is open to all students who are interested in the problems of good education for young children.

The Student National Education Association is affiliated with the National Education Association. As one of the largest organizations on campus it provides opportunities for the prospective teacher to participate in educational programs.

Christian Fellowship

The Newman Club and the Student Christian Association provide opportunity for the students to enjoy Christian fellowship through study, religious education, and recreation. Both organizations are service organizations in addition to providing individual personal benefits to the students.

Literary Organizations

In addition to the literary opportunities provided by the publications of the college, there are three other organizations which provide literary experiences for the students. The Dramatic Club presents a major production annually and also several one-act plays. The Robert W. Fox Memorial Debating Society holds frequent intercollegiate debates which provide experiences in research and presentation techniques on the contemporary problem chosen as the Collegiate Debate Question of the Year. The Literary Club has as its purpose the creation of greater interest in the field of literature through lectures, attendance at plays, discussions, and visits to places of literary significance.

Subject Matter Clubs

There are numerous clubs on campus which provide stimulation and experiences for the students who are interested in a particular field or major area. Lectures, film strips, demonstrations, and discussion provide inspiration and encouragement to the student who participates actively in these organizations. Some of these clubs are the Audio-Visual Aids Association, Cercle Francais, La Corte Castellana, International Relations Club, Science Club, and Modern History Club.

The following organizations are not open to all students on an elective basis but any student is eligible for admission on the basis of special abilities and qualities.

Student Advisory Council

The Student Advisory Council is one of the most important organizations on campus because of its liaison position between the administration and the student body. It is considered an honor to be elected to serve on this council.

SPECIAL ORGANIZATIONS

The Student Public Relations Association which consists of class officers and club presidents has as its purpose the notification of the public of the outstanding achievements of the students.

All organizations have faculty sponsors who work closely with the students and the administration in attaining valuable and worthwhile activities beyond those provided in college classes.

Honor Society

Membership in Gamma Chi Chapter of Kappa Delta Pi, the national honor society in education, is restricted to qualifying students who meet the high academic requirements from the Junior and Senior classes.

PROGRAM LEADING TO THE BACHELOR OF ARTS DEGREE

FRESHMAN YEAR

First Semester	Sem. Hrs.	Second Semester	Sem. Hrs.
English Composition (3)	3	English Composition (3)	3
Physical Education (2)	½	Physical Education (2)	½
Foreign Language (3)	3	Gen. Psychology (3)	3
Hist. West. Civilization (3)	3	Foreign Language (3)	3
*Elements of Math. (3)	3	Hist. West. Civilization (3)	3
Elective (3)	3	Prin. of Effective Speech (2)	1
		Elective (3)	3
	15½		16½

*Science & Math. Majors substitute an elective in place of Elements of Math.

SOPHOMORE YEAR

Survey of Am. Lit. (3)	3	Survey of Eng. Lit. (3)	3
Physical Education (2)	½	Physical Education (2)	½
Foreign Language (3)	3	Foreign Language (3)	3
U.S. Hist. & Gov't. (3)	3	U.S. Hist. & Gov't. (3)	3
Science req.		Science req. (continued)	3
(see advisor) (4)	3	Elective (3)	3
Voice & Diction (2)	1		
Elective (3)	3		
	16½		15½

JUNIOR AND SENIOR YEAR

Students will select their Junior and Senior year courses with the guidance of the Department Chairman in their major areas. All Liberal Arts students will take Philosophy in their senior year.

PROGRAM LEADING TO THE BACHELOR OF ARTS DEGREE

Minor in Education

FRESHMAN YEAR

First Semester	Sem. Hrs.	Second Semester	Sem. Hrs.
English Composition (3)	3	English Composition (3)	3
Physical Education (2)	½	Physical Education (2)	½
Foreign Language (3)	3	Gen. Psychology	3
Hist. West. Civilization (3)	3	Foreign Language (3)	3
*Elements of Math. (3)	3	Hist. West. Civilization (3)	3
Elective (3)	3	Prin. of Effective Speech (2)	1
		Elective (3)	3
	15½		16½

*Science & Math. Majors substitute an elective in place of Elements of Math.

SOPHOMORE YEAR

Survey of Am. Lit. (3)	3	Survey of Eng. Lit. (3)	3
Physical Education (2)	½	Physical Education (2)	½
Foreign Language (3)	3	Foreign Language (3)	3
U.S. Hist. & Gov't. (3)	3	U.S. Hist. & Gov't. (3)	3
Science req. (see advisor) (4)	3	Science req. (continued)	3
Voice & Diction (2)	1	Elective (3)	3
Elective (3)	3		
	16½		15½

JUNIOR YEAR

Economics (3)	3	Reading in Jr.-Sr. High (3)	3
Hist. & Lit. of Music (3)	3	Prin. of Teaching (4)	3
Electives (9)	9	Educ. Psychology (3)	3
		Electives (6)	6
		Teaching Methods (2)	2
	15		17

SENIOR YEAR

Student Teaching	8	Sociology (3)	3
Measurement & Eval. (3)	3	Hist. of West. Art (3)	3
Psych. of Adolescence (2)	2	Philosophy (3)	3
Hist. & Philo. of Educ. (2)	2	Electives (6)	6
	15		15

Note: A separate page is devoted to Elective selections. Students should elect courses sequentially from their major area with department chairmen approval.

TOTAL SEM. HOURS: 129

PROGRAM LEADING TO THE BACHELOR OF SCIENCE IN EDUCATION DEGREE

MAJOR: SECONDARY EDUCATION

FRESHMAN YEAR

First Semester	Sem. Hrs.	Second Semester	Sem. Hrs.
English Composition (3)	3	English Composition (3)	3
Physical Education (2)	½	Physical Education (2)	½
Biology (4)	3	Biology (4)	3
*Elements of Math (3)	3	General Psychology (3)	3
Hist. of West. Civil. (3)	3	Hist. of West. Civil. (3)	3
Elective (3)	3	Elective (3)	3
		Principles of Effective Speech (2)	1
	15½		16½

*Science & Math. Majors substitute an elective in place of Elements of Math.

SOPHOMORE YEAR

Survey of American Lit. (3)	3	Survey of English Lit. (3)	3
Physical Education (2)	½	Physical Education (2)	½
Physical Science (4)	3	Physical Science (4)	3
U.S. History & Gov't. (3)	3	U.S. History & Gov't. (3)	3
Principles of Physical Geography (3)	3	Elective (6)	6
Voice & Diction (2)	1		
Elective (3)	3		
	16½		15½

JUNIOR YEAR

Philosophy (3)	3	Principles of Teaching (4)	3
Economics (3)	3	Reading in Jr.-Sr. High (3)	3
Hist. & Lit. of Music (3)	3	Educ. Psychology (3)	3
Electives (9)	9	Teaching Methods (2)	2
		Electives (6)	6
	18		17

SENIOR YEAR

Student Teaching	8	Sociology (3)	3
Psych. of Adolescence	2	Hist. of West. Art (3)	3
Hist. & Philo. of Educ. (2)	2	Electives (9)	9
Meas. & Evaluation (3)	3		
	15		15

Note: A separate page is devoted to Elective selections. Students should elect courses sequentially from their major area with department chairmen approval.

TOTAL SEM. HOURS: 129

PROGRAM LEADING TO THE BACHELOR OF SCIENCE IN EDUCATION DEGREE

MAJOR: ELEMENTARY EDUCATION, CONCENTRATION—
KINDERGARTEN PRIMARY AND SCHOOL LIBRARY SCIENCE

FRESHMAN

First Semester	Class Periods	Sem. Hrs.	Second Semester	Class Periods	Sem. Hrs.
English Composition	3	3	English Composition	3	3
Biology	4	3	Biology	4	3
Elements of Math.	3	3	General Psychology	3	3
Modern European History	3	3	Modern Math. (El.)	3	3
Physical Educ.	2	½	Physical Educ.	2	½
Introd. to Music	3	3	Child Growth & Develop.	3	3
			Prin. of Effective Speech	2	1
	18	15½		20	16½

SOPHOMORE

Survey of Am. Lit.	3	3	Physical Science	4	3
United St. Hist.	3	3	Survey of Eng. Lit.	3	3
Principles of Physical Geography	3	3	United St. Govnt.	3	3
Introd. to Art	3	3	Principles of Cultural Geography	3	3
Voice & Diction	2	1	Teaching of Art	2	2
Physical Educ.	2	½	Physical Educ.	2	½
Physical Science	4	3	Elective (1)	3	3
	20	16½		20	17½

JUNIOR

Children's Lit.	3	3	Princ. of Teaching	4	3
Economics	3	3	Teaching of Reading	3	3
Nature Study	2	2	Teaching of Arith.	3	3
Hist. & Phil. of Educ.	2	2	Teaching of Social Studies	2	2
Language Arts	2	2	Teaching of Handwriting	1	½
Teaching of Music	2	2	Meas. & Evaluation	3	3
Elective (1)	3	3	Elective (1)	3	3
	17	17		19	17½

SENIOR

Student Teaching & Ed. Sem.		12	Sociology	3	3
Health Educ.	2	2	Contemp. Lit.	3	3
Oral Interpretation	1	½	First Aid	1	½
Educ. Psychology	2	2	Teaching of Science	2	2
			Electives (2)	6	6
	5	16½		15	14½

TOTAL SEM. HOURS: 131½

PROGRAM LEADING TO THE BACHELOR OF SCIENCE IN EDUCATION DEGREE

MAJOR: ELEMENTARY CURRICULUM

FRESHMAN

First Semester	Class Periods	Sem. Hrs.	Second Semester	Class Periods	Sem. Hrs.
English Composition	3	3	English Composition	3	3
Biology	4	3	Biology	4	3
Elements of Math.	3	3	General Psychology	3	3
Hist. of West. Civil.	3	3	Modern Math. (El.)	3	3
Physical Educ.	2	½	Physical Educ.	2	½
Introd. to Music	3	3	Child Growth & Develop.	3	3
			Princ. of Effective Speech	2	1
	18	15½		20	16½

SOPHOMORE

Survey of Am. Lit.	3	3	Physical Science	4	3
United St. Hist.	3	3	Survey of Eng. Lit.	3	3
Principles of Physical Geography	3	3	United St. Govnt.	3	3
Introd. to Art	3	3	Principles of Cultural Geography	3	3
Voice & Diction	2	1	Teaching of Art	2	2
Physical Educ.	2	½	Physical Educ.	2	½
Physical Science	4	3	Elective (1)	3	3
	20	16½		20	17½

JUNIOR

Princ. of Teaching	4	3	Educ. Psychology	2	2
Teaching of Reading	3	3	Student Teaching		12
Teaching of Arith.	3	3	Health Education	2	2
Teaching of Social Studies	2	2	Oral Interpretation	1	½
Teaching of Handwriting	1	½	Seminar I	1	
Meas. & Evaluation	3	3			
Elective (1)	3	3			
	19	17½		6	16½

SENIOR

Children's Lit.	3	3	Sociology	3	3
Economics	3	3	Contemp. Lit.	3	3
Nature Study	2	2	First Aid	1	½
Hist. & Phil. of Educ.	2	2	Teaching of Science	2	2
Language Arts	2	2	Electives (2)	6	6
Teaching of Music	2	2			
Elective (1)	3	3			
	17	17		15	14½

TOTAL SEM. HOURS: 131½

REQUIREMENTS IN GENERAL EDUCATION

GENERAL EDUCATION

	B.S.Ed. (Elementary)	B.S.Ed. (Secondary)	B.A.
English			
Composition	6	6	6
Speech, Voice & Diction	2½	2	2
Survey of American Literature	3	3	3
Survey of English Literature	3	3	3
Contemporary Literature	3		
Children's Literature	2		
History			
History of Western Civilization		6	6
United States History and Government	6	6	6
Modern European History	3		
Geography			
Principles of Physical Geography	3	3	
Principles of Cultural Geography	3		
Social Studies			
Economics	3	3	3
Sociology	3	3	3
Science			
Biology	6	6	
Physical Science	6	6	
Nature Study	2		
Science (to be selected with approval of faculty advisor)			6 or 8
Mathematics			
Elements of Mathematics	3	3	3
Modern Math (Elementary)	3		
Art			
Introduction to Art	3	3	3
Music			
Introduction to Music	3		
History and Literature of Music		3	3
Psychology			
General Psychology	3	3	3
Educational Psychology	2	3	*3
Child Growth & Development	3		
Health, First Aid & Physical Education	4½	2	2
Philosophy		3	3
Foreign Language			12
Electives	15	36	36

*Included in the minor in education

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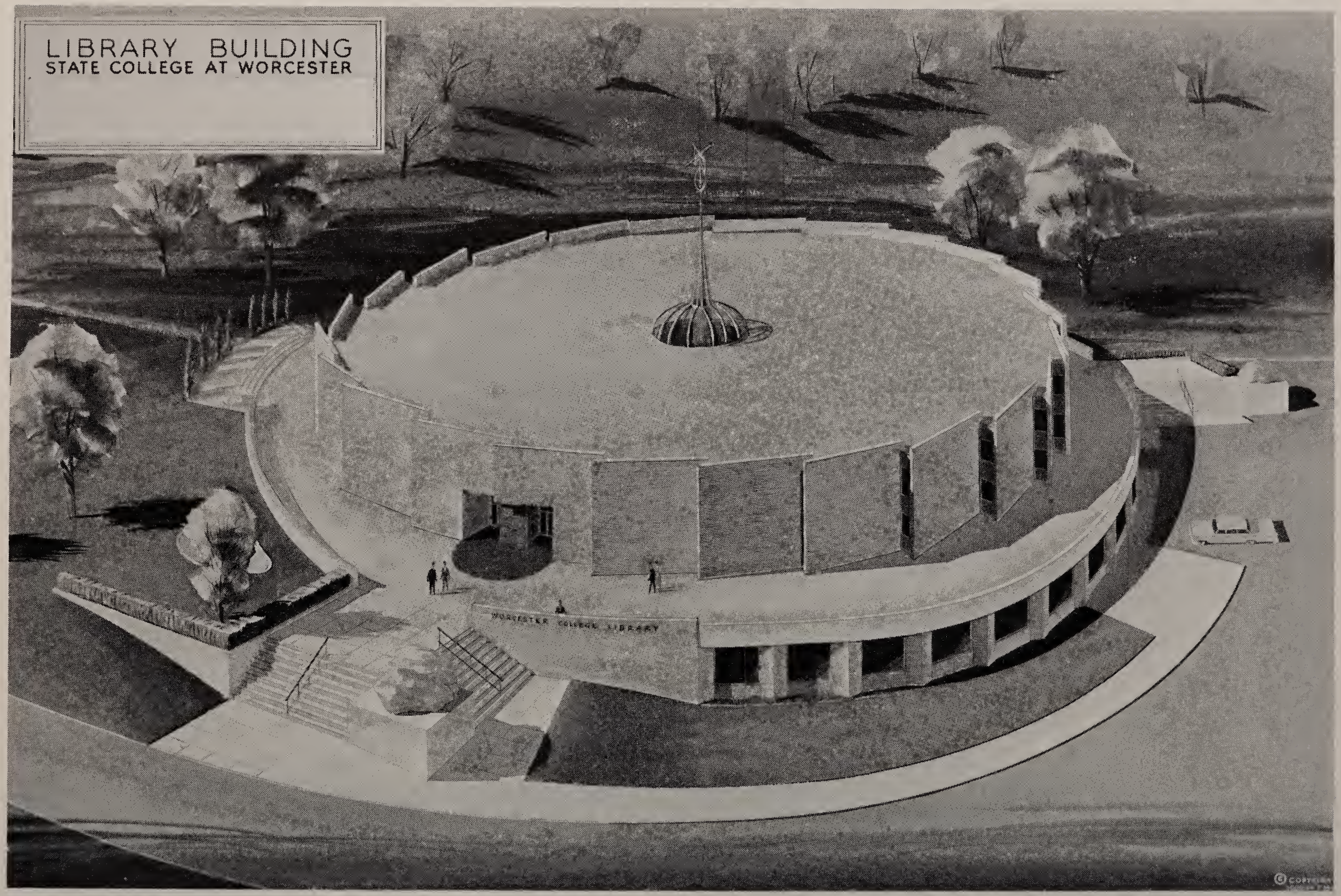

LIBRARY BUILDING
STATE COLLEGE AT WORCESTER
WORCESTER COLLEGE LIBRARY

REQUIREMENTS IN PROFESSIONAL EDUCATION

PROFESSIONAL EDUCATION

	B.S.Ed. (Elementary)	B.S.Ed. (Secondary)	B.A. (Minor in education)
Principles of Education	3	3	3
Measurement and Evaluation	3	3	3
Teaching of Reading in Elementary Schools	3		
Teaching of Reading in Secondary Schools		3	3
Student Teaching & Seminar	12	8	8
Psychology of Adolescence		2	2
Child Growth & Development	3		
Teaching Methods (in major area)		2	2
Teaching of Art	2		
Teaching Handwriting	½		
Teaching Arithmetic	3		
Teaching Music	2		
History and Philosophy of Education	2	2	2
Language Arts	2		
Teaching Social Studies	2		
Teaching Science	2		
Educ. Psychology	2	3	3

ELECTIVE SELECTIONS

Note: These electives are arranged by semester only. The sequence in which they are taken should be arranged after consultation with your major advisor.

FIRST SEMESTER	Sem. Hrs.	SECOND SEMESTER	Sem. Hrs.
BIOLOGY CONCENTRATION			
Botany	3	Invertebrate Zoology	3
Microbiology	3	Human Anatomy & Physiology	3
Field Biology	3	Vertebrate Zoology	3
		Genetics	3
		Embryology	3
CHEMISTRY CONCENTRATION			
Chemistry I	4	Chemistry II	4
Analytical Chemistry I	3	Analytical Chemistry II	3
Organic Chemistry I	4	Physical Chemistry	6
		Organic Chemistry II	4
EARLY CHILDHOOD EDUCATION CONCENTRATION			
Early Childhood Education I	3	Early Childhood Education II	3
Early Childhood Education III	3	Early Childhood Education IV	3

ELECTIVE SELECTIONS

FIRST SEMESTER	Sem. Hrs.	SECOND SEMESTER	Sem. Hrs.
ENGLISH CONCENTRATION			
18th Century Literature	3	Form & Idea in Drama	6
Renaissance	3	Classics: Ancient thru Medieval	3
Chaucer	3	Classics: Renaissance thru Modern	3
Shakespeare	3	Contemporary Literature	3
19th Century Poetry	3	British Novel	3
Introduction to Poetry I	3	American Novel	3
		Victorian Literature	3
		Romantic Literature	3
		Advanced Composition	3
		Creative Writing	3
		17th Century Literature	3
		Modern Literature	3
		Introduction to Poetry II	3
FRENCH CONCENTRATION			
Intermediate French I	3	Intermediate French II	3
Readings in French Literature I	3	Readings in French Literature II	3
Survey of French Literature I	3	Conversational French II	3
Advanced French Composition	3	18th Century French Literature	3
Conversational French I	3	17th Century French Literature	3
Modern French Drama	3	Contemporary French Literature	6
		Survey of French Literature II	3
GEOGRAPHY CONCENTRATION			
Geography of Asia	3	Political Geography	3
Geomorphology	3	Economic Geography	3
Urban Geography	3	Climatology	3
Regional Geography-Western Hemisphere	3	Geography of Europe	3
		Regional Geography-Eastern Hemisphere	3
HISTORY CONCENTRATION			
Economic & Social History of the United States	3	Diplomatic History of Modern Europe	3
Cultural History of Europe	3	Western European History, 1815–1914	3
Colonial History	3	Europe since World War I	3
U.S. Constitutional History	3	Ancient History	3
English History	3	History of U.S. Foreign Policy	3
Modern Far East History	3	Modern Russian History	3
International Relations I	3	History of Latin America	3
		20th Century U.S. History	3
		Early National Period, 1783–1829	3
		International Relations II	3

FIRST SEMESTER	Sem. Hrs.	SECOND SEMESTER	Sem. Hrs.

MATH CONCENTRATION

College Algebra	3	Linear Algebra	3
Trigonometry I	3	Trigonometry II	3
Differential Calculus	3	Integral Calculus	3
Modern Math I	3	Modern Math II	3
Advanced Calculus III	3	Analytic Geometry	3
		Differential Equations	3
		Advanced Calculus IV	3

PHYSICS CONCENTRATION

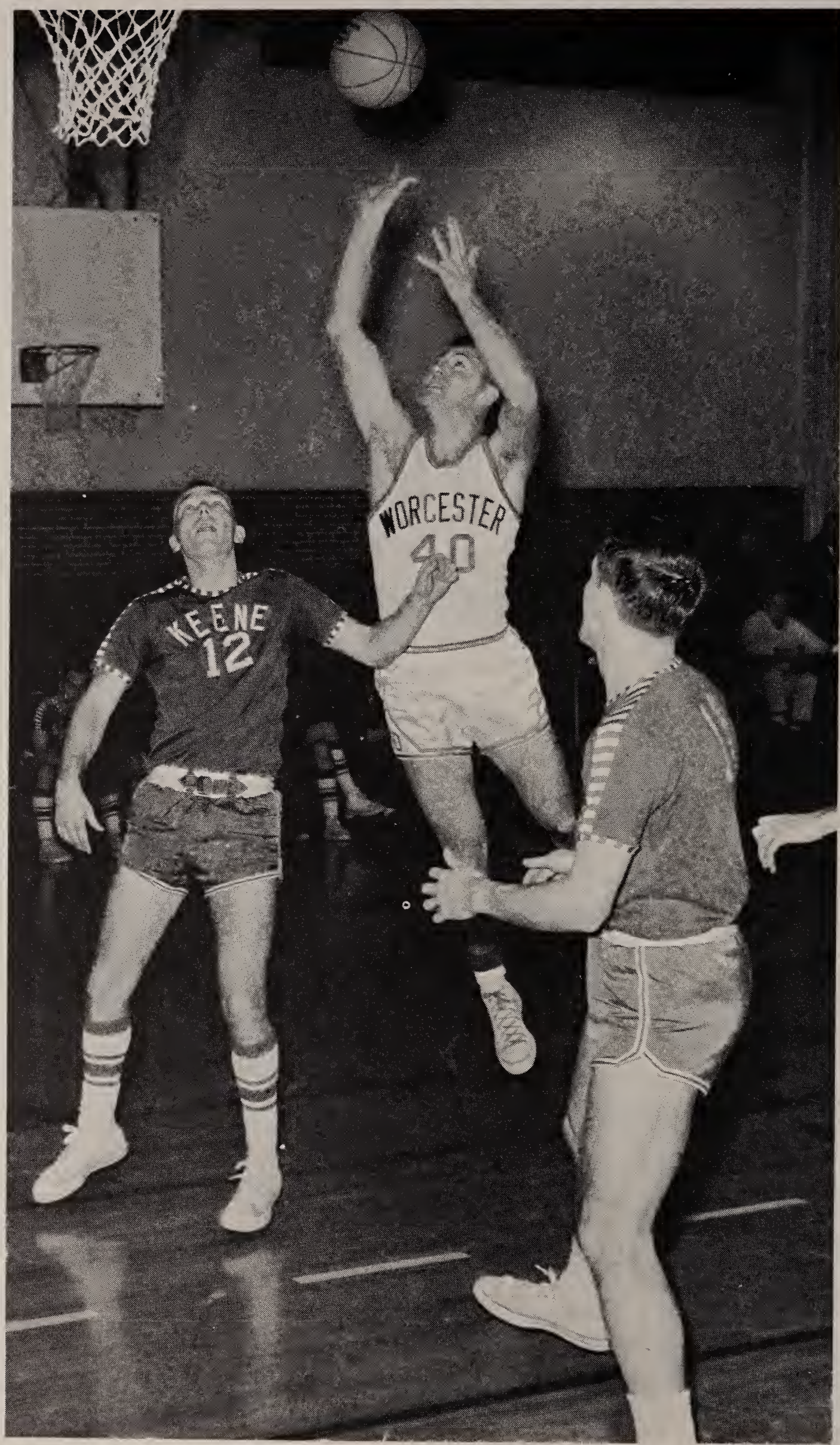
Physics I	4	Physics II	4
Physics III	4	Physics IV	4
General Chemistry I	4	Physics V	6
		General Chemistry II	4

SPANISH CONCENTRATION

Intermediate Spanish I	3	Intermediate Spanish II	3
Beginning Spanish	3	Beginning Spanish II	3
Advanced Composition	3	Cervantes & Don Quixote	3
19th Century Spanish Literature (Romanticism)	3	Spanish American Literature	3
Spanish Conversations	3	Masterpieces of Spanish Literature	3
		Contemporary Spanish Literature	3
		17th Century Drama	3
		Literature of Spanish Renaissance	3
		19th Century Spanish Literature (The Novel)	3

SCHOOL LIBRARY SCIENCE

Introd. to Reference Sources and Methods	3	Library Cataloging and Classification	3
Org. & Adm. of The Instructional Materials Center	3	The Librarian in The Modern School	3
Student Teaching and Library Practice Work	3	Selection and Use of Library Materials	1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DESCRIPTION OF COURSES

The College reserves the right to make changes in course or semester offerings as necessary.

DEPARTMENT OF BIOLOGY

911 BIOLOGY *6 semester hours*

This is a general lecture and laboratory course dealing with the fundamental facts and principles of biology, including the nature and dynamics of living systems; human, animal, and plant biology; reproductions; heredity; organic evolution. It aims to create a better understanding of the phenomena of life as they relate to man and related aspects of his environment.

912 BOTANY *3 semester hours*

This course considers the plant kingdom—including the taxonomy, natural history, significant anatomy, life cycles, and evolutionary relationships of selected groups. Taxonomic methods are reviewed; representative specimens are identified, classified, dissected, and studied macro and microscopically in the laboratory.

913 INVERTEBRATE ZOOLOGY *3 semester hours*

This course considers the anatomy, taxonomy, natural history, and evolutionary relationships of selected invertebrate phyla. The history of taxonomy is considered—including a review of the establishment and function of the International Congress of Zoological Nomenclature. Detailed consideration is given to selected articles of its code. Representative specimens are identified, classified, and dissected in the laboratory.

914 MICROBIOLOGY *3 semester hours*

Prerequisite: Biology or equivalent

This introductory course in microbiology stresses the inter-relationship of parasite, host, and environment. It first considers the morphology and physiology of the parasite; then focuses upon the host in stress factors, infection and immunity; and finally probes into the environmental (epidemiological) aspects of microbiology. Microbiological techniques and appropriate experiments are stressed in the laboratory.

915 HUMAN ANATOMY AND PHYSIOLOGY *3 semester hours*

Prerequisite: Biology or equivalent

This course considers the anatomy and physiology of the human body under normal circumstances. The integration, organization, and dynamics of all body systems are considered—appropriate physiological experiments and dissection of selected organs and specimens are stressed in the laboratory.

916 FIELD BIOLOGY *3 semester hours*

Prerequisite: Biology or equivalent

This course considers the interrelationships of living organisms and their environment—including climatic, physiographic, and biological factors. Plant and animal forms are collected and identified, their associations, population densities and distributions, habitat types are considered. Field and laboratory studies and student projects are emphasized.

918 EMBRYOLOGY *3 semester hours*

Prerequisite: Biology or equivalent

This course considers the history of embryology and the ontogeny of selected invertebrate and vertebrate embryos. The principles of cellular tissue, and organ differentiation and organization are emphasized—appropriate consideration is given to gametogenesis, fertilization, and development of extra-embryonic membranes. Detailed consideration is given in the laboratory to protochordate, frog, chick, and pig developmental stages.

919 GENETICS *3 semester hours*

Prerequisite: Biology or equivalent

This course considers the phenomena of biological inheritance—its cytological and biochemical bases. The nature and function of genetic material, basic Mendelian genetics, and population genetics are studied—application of these principles to practical (including human) problems are made.

917 VERTEBRATE ZOOLOGY *3 semester hours*

Prerequisite: Biology or equivalent

This course reviews the taxonomy and phylogeny of protochordates and chordates, and concentrates on a systematic comparison of the morphology and representative chordates—to illustrate chordate evolution and to establish homology, analogy, and basic nomenclature. Representative specimens are identified and classified—laboratory dissections concentrate on shark and cat.

920 NATURE STUDY *2 semester hours*

The purpose of this course is to develop a continuing interest in nature. Appreciation and understanding of selected aspects of nature are developed through group and individual activities. Development of various techniques and the evaluation of their use with children is encouraged.

This course may not be used for credit towards a major in biology.

DEPARTMENT OF CHEMISTRY AND PHYSICS

811 CHEMISTRY I *4 semester hours*

This course stresses the principles of Chemistry and modern concepts of atomic structure. Topics include quantum theory, chemical equations, the chemical bond, states of matter, solutions, and the elements of thermodynamics. Three lectures and a three-hour laboratory period per week.

811 CHEMISTRY II *4 semester hours*

Prerequisite: Chemistry I

A continuation of General Chemistry I, this course stresses oxidation and reduction, chemical kinetics, equilibrium in solutions, electrochemistry, nuclear chemistry, and the descriptive chemistry of the elements. Three lectures and a three-hour laboratory period per week.

821 ORGANIC CHEMISTRY I, II *8 semester hours*

Prerequisite: Chemistry I & II

This course is a study of aliphatic and aromatic carbon compounds, presented in a unified treatment. A systematic classification of group properties and transformations is combined with the synthesis of organic compounds. Special emphasis is given to the mechanistic and structural concepts involved. For students with concentration in chemistry, biology and related sciences. Three lectures and a three-hour laboratory period per week, each semester.

823 ANALYTICAL CHEMISTRY I *3 semester hours*

Prerequisite: Chemistry I & II

A fundamental course in inorganic qualitative analysis. The theoretical segment includes principles of solutions, equilibria, and oxidation-reduction reactions. Group analyses of inorganic cations and anions make up the laboratory work. Two lectures and two three-hour laboratory periods per week.

823 ANALYTICAL CHEMISTRY II *3 semester hours*

Prerequisite: Chemistry I & II and Analytical Chemistry

The theoretical principles and experimental techniques of analytical chemistry are developed through a study of both classical gravimetric and volumetric methods of analysis, as well as modern instrumental techniques. Two lectures and two three-hour laboratory periods per week.

824 **PHYSICAL CHEMISTRY** *6 semester hours*

Prerequisite: Chemistry (Full year)

An introduction to the concepts uniting chemistry and physics. Topics discussed include classical thermodynamics, states of matter, chemical equilibria and kinetics, solutions, colloids, electrochemistry, and a quantum mechanical approach of the study of molecular structure and spectroscopy. Four lectures and one three-hour laboratory period per week.

825 **PHYSICAL SCIENCE I, II** *6 semester hours*

A required course for Sophomores, except those who elect Physics I & II (who must also elect mathematics) and Chemistry (who should elect Physics I & II). This course surveys the physical sciences, with a particular emphasis on chemistry, physics, and astronomy. Stress is placed upon the development of the scientific method and scientific attitude in students. An experimental point of view is emphasized in the evolution of concepts and theories. A working knowledge of algebra and trigonometry is desirable for this course. Two lectures and one laboratory period per week, each semester.

831 **PHYSICS I, II** *8 semester hours*

An introduction to classical and modern physics, with emphasis on the fundamental principles and conservation laws. Topics treated include Newtonian mechanics, structure and properties of matter, heat, and the electromagnetic field. Three hours of lecture and three hour laboratory period per week, each semester. (Students are required to elect mathematics concurrently.)

833 **PHYSICS III: WAVE MOTION AND OPTICS** *4 semester hours*

Prerequisites: Physics I & II, and Mathematics taken concurrently.

Principles of geometrical and physical optics, including properties of waves, the electromagnetic spectrum, interference, diffraction, and related topics. Lecture, three hours; laboratory, three hours.

834 **PHYSICS IV: THERMODYNAMICS AND STATISTICAL MACHINES** *4 semester hours*

Prerequisites: Physics I & II, and Mathematics taken concurrently.

An introduction to thermodynamics, kinetic theory, and statistical mechanics. Three lectures and a three-hour laboratory period per week.

835 **PHYSICS V: ATOMIC AND NUCLEAR PHYSICS** *6 semester hours*

Prerequisites: Physics I and II, and Calculus

Selected topics in modern physics, including atomic and nuclear structure and spectra, relativity, and introductory wave mechanics. Four hours of lecture and three hours of laboratory per week.

DEPARTMENT OF EDUCATION

011 **EARLY CHILDHOOD EDUCATION I** *3 semester hours*

A study will be made of the historical background and development of Nursery, Kindergarten, and Primary grades. Interpretations of the laws of learning in terms of the little child will be given through a study of materials, experiences, and activities designed to meet the needs and interests of the growing child.

012 **EARLY CHILDHOOD EDUCATION II** *3 semester hours*

Stress will be placed upon original trends, modern curriculum, games, and reasons for unification of ideas of Nursery, Kindergarten, and Primary education. Observation at each level will be provided.

013 **EARLY CHILDHOOD EDUCATION III** *3 semester hours*

This course includes a study of reading readiness activities together with work, play, and testing materials. Special attention is given to recent research, audio-visual aids, and various types of printed material, with practical observation of children.

014 EARLY CHILDHOOD EDUCATION IV *3 semester hours*

A practical collection of materials to be used for teaching purposes is made. Music materials are studied with stress on songs, rhythms, and rhythm band at the five-year level. Records which are prepared as a result of home visitation are reviewed.

019 TEACHING OF ART *2 semester hours*

This course is concerned with the place of art in the elementary school and stresses contemporary practices through laboratory experiences.

020 TEACHING OF MUSIC *2 semester hours*

The place of music in the elementary curriculum with emphasis placed upon the child voice, selection and presentation of rote songs, and understandings needed by the classroom teacher for guiding growth in rhythmic, notational, and listening experiences; survey of music books and materials, recordings, and other audio-visual materials used in the elementary school music program. Prerequisite: Introduction of Music.

031 STUDENT TEACHING:

This course offers actual teaching under capable and experienced teachers in the schools of Worcester and vicinity. The student is given the opportunity to apply the principles and techniques of teaching and to assume responsibility for planning, executing and evaluating teaching-learning situations. Members of the college staff are responsible for the supervision and evaluation of the student teacher.

Bachelor of Science in Education (Elementary): *12 semester hours*

The period of student teaching is 15 weeks, with 4 days a week full-time in the cooperating school and the fifth day at the colleges for classes and seminar.

Bachelor of Arts & Secondary Level: *8 semester hours*

The period of student teaching is 9 weeks, with five days a week full-time in the cooperating school. One-day workshops are held at the college at the end of the fourth week.

042 LANGUAGE ARTS *2 semester hours*

This course is concerned with the functional and creative aspects of oral and written expression. Consideration is given to procedures which insure the development of language power in relation to child growth.

018 PRINCIPLES OF EDUCATION—ELEMENTARY *3 semester hours*

023 PRINCIPLES OF EDUCATION—SECONDARY *3 semester hours*

This course serves as a preparation for student teaching. Principles of learning are developed as foundations for principles of teaching. Emphasis is placed on the development of the school in America and its curriculum, types of lessons, techniques of teaching, unit and activity planning, as well as understanding and evaluating the pupils. Opportunities for observation and participation are provided so that the school program may be better understood.

017 TEACHING OF HANDWRITING *½ semester hour*

This course is designed to guide students in methods in cursive and manuscript systems. Planned lesson, chalkboard practice, and teaching techniques are discussed. Students are encouraged to improve their own handwriting, both on paper and on the board, until it reaches suitable standards for classroom work.

022 TEACHING OF READING *3 semester hours*

This course is designed to acquaint prospective teachers with the developmental and functional aspects of reading instruction in the modern elementary school. Emphasis is placed upon materials and procedures for developing the basic reading skills and upon practical techniques for improving pupil competence in study reading in the content subjects.

024 TEACHING OF READING IN JUNIOR AND SENIOR HIGH SCHOOLS *3 semester hours*

The principal emphasis of this course concerns the responsibility of the secondary school teacher for extending and refining basic reading abilities. Particular attention is given to the reading demands of each of the content subjects and to materials and techniques designed to insure steady pupil growth in reading efficiency.

021 TEACHING OF ARITHMETIC *3 semester hours*

Consideration is given to those methods which prepare and motivate pupils to undertake the study of the new topics of contemporary programs that guide their exploration and discovery of processes and improvising of solutions, that develop their understanding of underlying mathematical principles, that fix their skills and concepts in quantitative situations.

039 TEACHING OF SOCIAL STUDIES *2 semester hours*

A study is made of the aims, principles, and methods of social studies in the elementary school curriculum. Development and practice in the unit type approach to teaching social studies, including history and geography, is discussed and presented. Emphasis is placed upon choice of texts and audio-visual aids, selection of materials for courses of study, types of learning activities, and testing.

046 TEACHING OF SCIENCE *2 semester hours*

This course provides an overview of objectives of science teaching, curricula, materials, and teaching procedures.

035 EDUCATIONAL SEMINAR *0 semester hours*

During student teaching the students meet in conference for discussion of general problems of the beginning teacher. Such problems as successful management, economy of time, teaching procedures, evidences of good method, personality, professional ethics, and relationships between student and training teacher and between student and supervisor are considered.

054 TEACHING OF ENGLISH IN SECONDARY SCHOOLS *2 semester hours*

This course is designed to equip students with a clear understanding of effective teaching procedures and materials related to the functional and creative aspects of the teaching of English. This course is required of all students majoring in English.

055 TEACHING OF FRENCH IN THE SECONDARY SCHOOLS *2 semester hours*

This course includes a brief history of the aims and objectives of modern language teaching in the United States. A study of current methods of modern language teaching will emphasize the audio-lingual approach, the place of the unit in foreign language instruction, the function and use of the language laboratory, an evaluation of textbooks and tests. This course is required of all students planning to teach French on the secondary school level.

056 METHODS OF TEACHING SPANISH IN THE SECONDARY SCHOOL *2 semester hours*

This course provides the language teacher with the introductory background to the theory of language and language teaching, as well as to Romance Linguistics and its application to the teaching of Spanish. A critical study of the contemporary methods and materials used in the teaching of modern foreign languages in the United States and Europe will be made. The evaluation of texts, tapes, recordings and other materials to be used in the teaching of Spanish on the elementary and/or secondary levels will be reviewed. This course is required of all Spanish majors who plan to teach Spanish.

044 TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS
2 semester hours

This course emphasizes the significant contemporary approach to secondary school mathematics and the instructional problems involved in making it effective. Reports on current mathematical magazines, bulletins, and yearbooks will be required. Oral presentations of topics of mathematics, with emphasis on methods, will also be a part of the program. This course is required for secondary school mathematics teacher certification.

047 TEACHING OF BIOLOGY IN SECONDARY SCHOOLS
2 semester hours

This course considers the philosophy, theory, and practice of science teaching on the secondary school level. It provides an opportunity to develop both the theoretical insight and the practical knowledge and skills needed for higher achievement in science teaching. This course is required for secondary school science teacher certification.

045 TEACHING OF SCIENCE IN THE SECONDARY SCHOOL
2 semester hours

Methods of instruction in secondary school science are studied with an emphasis placed on the non-biological sciences. The course deals with an overview, the organization and presentation of subject matter, equipment and techniques used in physical science, and the status and trends of science in the junior and senior high school.

048 TEACHING OF SOCIAL STUDIES IN SECONDARY SCHOOLS
2 semester hours

This course is designed to acquaint students with the methods and materials available for use in junior and senior high schools. The examination of courses of study and textbooks will be included. This course is required of all students majoring in history and geography.

040 HISTORY AND PHILOSOPHY OF EDUCATION *2 semester hours*

A study is made of early forms of education in the United States and in foreign countries; of influences and movements that have brought about the present ideals and practices in education with emphasis upon current problems; of philosophies of leaders of various movements; and of the nature, scope, and function of various types of modern educational philosophies.

036 MEASUREMENT AND EVALUATION *3 semester hours*

A practical knowledge of educational testing, measurement, and evaluation techniques for group surveys and for individual diagnosis is emphasized. Practice is given in interpreting and evaluating a variety of standardized tests. Various instruments and techniques of evaluation are presented. Topics include elementary statistical procedures, characteristics of teacher-made and standardized tests, the study and diagnosis of pupil aptitudes and abilities, test selection, and interpretation of data.

DEPARTMENT OF ENGLISH AND SPEECH

113 ENGLISH COMPOSITION I *3 semester hours*

This course emphasizes the fundamentals of grammatical structure for both practical and imaginative writing. Literary forms, including the essay, biography, and the short story are also considered.

113 ENGLISH COMPOSITION II *3 semester hours*

A continuation of English Composition I concerned with principles of good

writing and desirable qualities of style. Literary forms, including the drama, the novel, and poetry are studied. Special emphasis is placed on the use of the library, techniques of research, and the writing of a formal research paper.

112 PRINCIPLES OF EFFECTIVE SPEECH *1 semester hour*

This course gives a detailed study of the vowel and consonant sounds of the best American speech, stresses the elimination of bad speech habits, and provides opportunity to form the habits of good speech through frequent practice in speaking and reading.

126 INTRODUCTION TO POETRY I *3 semester hours*

A study is made of the universal elements in poetry, poetic meaning, description, functions, and imagery. Traditional forms are discussed, and the place of craftsmanship is stressed by means of lectures, discussions, and recordings.

126 INTRODUCTION TO POETRY II *3 semester hours*

This course gives a further approach to poetic appreciation by an examination of the basic characteristics, conventions, and special effects of modern poetry. Evaluation is made of the effectiveness of the figurative language and symbolism. Modern techniques are discussed and creative work is required.

124 VOICE AND DICTION *1 semester hour*

This course continues the practice of frequent speaking and reading situations. Special emphasis is placed on the development of the voice.

122 SURVEY OF AMERICAN LITERATURE *3 semester hours*

The course provides comprehensive overview of the outstanding contributions of American writers and of major literary trends reflective of changing emphasis in American civilization.

148 SURVEY OF ENGLISH LITERATURE *3 semester hours*

This course gives a survey of the development of English literature from Beowulf to Thomas Hardy, including consideration of the background and general characteristics of each period and the reading of representative selections from various authors.

121 NINETEENTH CENTURY POETRY *3 semester hours*

A study of the chief Romantic and Victorian poets from Wordsworth to Swinburne, with emphasis upon their artistic development and their relationship to the intellectual and literary scene of the nineteenth century.

123 MODERN LITERATURE *3 semester hours*

English and American literature is studied with emphasis on the transition from Victorian literature and on the development of modern literature.

130 CHAUCER *3 semester hours*

A study of the development of Chaucer's versatile art and of his writings as expressive of the later Middle Ages will be made. The rudiments of Middle English will be taught as an aid to understanding the works of this greatest Middle English writer. The Canterbury Tales, The Book of the Duchess, The House of Fame, The Parliament of Fowls, and Toilus and Criseyde will be considered. Reading of Chaucerian English will be stressed, and recordings will be used.

145 CREATIVE WRITING *3 semester hours*

The aim of the course is to develop the student's writing ability and critical sense. Work of the students and of authors of established reputation will be read, analyzed, and discussed. The laboratory method and private conferences will be used as needed.

132 SHAKESPEARE *3 semester hours*

Representative plays are studied; Shakespeare's life and times, his predecessors and his contemporaries are evaluated.

136 NINETEENTH CENTURY LITERATURE *3 semester hours*

The literature of the century is studied in two period—the Age of Pope and the Age of Johnson—emphasizing in the first the classical tradition, and in the second, the approach to Romanticism.

137 WORLD CLASSICS I: ANCIENT AND MEDIEVAL *3 semester hours*

This course presents a panoramic view of ancient and medieval world literature. Greek and Roman masterpieces are studied as well as representative works of the Middle Ages.

138 WORLD CLASSICS II: RENAISSANCE AND MODERN

This course considers world masterpieces of the Renaissance and the modern period. There will be minor stress on English and American classics.

139 SEVENTEENTH CENTURY LITERATURE *3 semester hours*

This course will consist of a study of the prose and poetry of this era with special attention to the major works of Jonson, Donne, and Milton.

134 THE RENAISSANCE *3 semester hours*

The course undertakes a study of English literature of the period from 1550 to 1650, Shakespearean drama and major works of Milton being excluded. Brief correlative studies in the other fine arts are offered to answer some of the suggestivity of the term Renaissance.

125 FORM AND IDEA IN DRAMA *6 semester hours*

This course is designed to acquaint the student with the nature and conventions of dramatic literature. The plays of representative dramatists from the theatre of ancient Greece to the contemporary theatre of the absurd will be analyzed and discussed with particular emphasis upon genre and world idea.

141 ROMANTIC LITERATURE *3 semester hours*

This course will consider the poetry and prose of the Romantic Period with special emphasis on the poetry of Wordsworth, Coleridge, Shelley, Byron, and Keats. The Romantics will be considered from modern critical views as well as from contemporary attitudes.

142 VICTORIAN LITERATURE *3 semester hours*

This course will consider the poetry and prose of the Victorian Period with special emphasis on the poetry of Browning, Tennyson, and Arnold. Prose writers such as Carlyle, Ruskin, and Newman will be studied for the impact of their ideas on their contemporaries as well as on the modern mind.

143 ORAL INTERPRETATION *½ semester hour*

This course is designed to integrate the reading and presentation of material to the particular grade in which the student is interested.

144 CONTEMPORARY LITERATURE *3 semester hours*

This course provides a study of contemporary fiction and non-fiction as a reflection of life in the twentieth century. Emphasis is placed upon critical evaluation of the major literary trends of the present: experimentation with forms, the development of realism and naturalism, and the preoccupation with problems of national and international significance. Attention is given to the extension of the student's reading interests and the improvement of his literary tastes.

115 ADVANCED COMPOSITION *3 semester hours*

The course includes a thorough discussion of traditional descriptive grammar, assigned readings in the more recent structural and generative linguistic systems, a series of short written themes on types of literature, and a major paper discussing some aspect of language or literature.

146 THE BRITISH NOVEL *3 semester hours*

The British Novel course is a genre study in the historical frame of developing fiction from Daniel Defoe to Graham Greene. The emphasis is placed on the theoretical and critical literary developments that result from the combination of rhetorical and poetical concepts as the masters of the British novel illustrate the evolvement of an art form that dominates modern literature.

147 THE AMERICAN NOVEL *3 semester hours*

This course will examine the origins and rise of the American novel. It will include writers from Charles Brockden Brown to the present.

149 CHILDREN'S LITERATURE *2 semester hours*

This part of the course is designed to broaden student's acquaintance with literature suitable for children and to present effective procedures for fostering lasting interests in good reading.

DEPARTMENT OF FINE ARTS

215 INTRODUCTION TO ART *3 semester hours*

A basic course designed to introduce the student to the theory and practice of art. The analysis of paintings through use of slides and museum trips acquaint the student with the methods and materials of the artists. Studio work provides the student with an opportunity to become personally involved with the technical procedures, principles of design and various methods of representation used by the artist.

211 HISTORY OF WESTERN ART *3 semester hours*

A survey of the stylistic development of art from the beginning of the western tradition in Greece up to developments in the twentieth century. Emphasis is placed primarily on painting although architecture and sculpture are considered as well. Museum trips and the analysis of paintings is required to enable the student to think and feel his way to his own informed response to a work of art.

221 INTRODUCTION TO MUSIC *3 semester hours*

A preliminary course designed to acquaint students with the basic materials of music; singing and auralization of rhythmic, intervallic, and melodic materials; development of ability to translate ideas into simple notation. Course also includes directed listening, and use of simple percussion, melodic, and chordal instruments.

225 HISTORY AND LITERATURE OF MUSIC *3 semester hours*

Historical and critical study of music and its role in civilization from the Middle Ages to modern times; lectures, discussions, and illustration of forms of music composition through the medium of fine recordings. Live concert attendance represents an important phase of this course; in addition, special listening facilities are available to students outside of class. Course does not presuppose a technical knowledge of music.

228 CHORAL ARTS *1 semester hour*

Development of knowledge and skills of choral music of all periods through lecture, performance, and analysis of music suitable for public performance.

Introduction to basic techniques of choral conducting; class instruction and limited private instruction in use of singing; basic principles of singing, tone production, pronunciation, articulation, and intonation. Class size is limited and admission is by permission of instructors. Class may be repeated for credit each semester by approval of consistently advancing interpretive or performance projects. Open to all classes.

DEPARTMENT OF FOREIGN LANGUAGES

311 INTERMEDIATE FRENCH I AND II *6 semester hours*

Prerequisite for this course: two years of high school French or the equivalent

This course includes a review of French pronunciation, grammar, and verb forms through application in both composition and conversation. An introductory study of French civilization and culture with some representative readings is also presented.

315 READINGS IN FRENCH LITERATURE I AND II *6 semester hours*

Required of A.B. candidates

Selected readings of the masterpieces of French literature from the Middle Ages to the present make up this course. Thought content and literary forms are emphasized.

322 SURVEY OF FRENCH LITERATURE I AND II *6 semester hours*

A general view of French literature from the Middle Ages to the Modern Period is developed. Readings of the representative authors are studied in the light of historical and social background of each period.

331 ADVANCED FRENCH COMPOSITION *3 semester hours*

This course includes a review of more difficult points of French grammar; advanced study of idioms; and stylistic analysis of selected exercises in literary extracts.

334 CONVERSATIONAL FRENCH I *3 semester hours*

Required of all French majors

This course consists of a review of pronunciation with exercises in phonetic transcription and conversation with attention to intonation patterns, and practical approach to the spoken idiom.

334 CONVERSATIONAL FRENCH II *3 semester hours*

Facility and naturalness in speaking French is developed in this course through advanced oral drill and practical exercises. Increasing speed and complexity of speech patterns are the aims of the exercises.

325 SEVENTEENTH CENTURY FRENCH LITERATURE *3 semester hours*

A study of French classicism with intensive reading and analysis of the major works of Corneille, Racine, and Moliere will be included.

333 EIGHTEENTH CENTURY FRENCH LITERATURE *3 semester hours*

The French Enlightment as reflected in the works of Montesquieu, Voltaire, Diderot, and Rousseau is studied in this course.

332 FRENCH DRAMA *3 semester hours*

In this course the main currents in French drama from Naturalism to the present with analysis of the works of the principal dramatists are emphasized.

336 CONTEMPORARY FRENCH LITERATURE *6 semester hours*
A study of French literature from 1850 to the present day with emphasis on main trends will be included. Readings of representative works are a major requirement.

351 INTRODUCTORY SPANISH I AND II *6 semester hours*
This course is an introduction to Spanish by means of the aural-oral method. Fundamentals of pronunciation and intonation, speech patterns and structure will be included. Elementary compositions and reading relative to the literature and culture of Spain will be required. The language laboratory will be used.

352 INTERMEDIATE SPANISH I AND II *6 semester hours*
Continued study of pronunciation, intonation, speech patterns, and structure of Spanish at the intermediate level will be developed. Spanish culture and civilization will be emphasized through selected reading. The aural-oral method will be used and work in the language laboratory will be required.

353 ADVANCED SPANISH COMPOSITION *3 semester hours*
Facility in prose writing through the study of Spanish composition chosen from modern Spanish texts is developed in this course.

354 NINETEENTH CENTURY SPANISH LITERATURE I (Romanticism)

354 NINETEENTH CENTURY SPANISH LITERATURE II (The Novel)

6 semester hours

This course consists of reading and intensive study of selected works from the poetry, the essay, and the drama of the Romantic Period. The development of the novel in the 19th century is studied. Selected works of Valera, Galdos and other novelists of this period will be included.

355 CERVANTES & DON QUIJOTE *3 semester hours*
A study of the *Quijote* in relation to the life and times of Cervantes is made in this course.

356 SPANISH CONVERSATION *3 semester hours*
Intensive conversational practice for improving intonation, pronunciation, and fluency will be provided in this course. A review of language usage will be made as well as an introduction to phonetics.

357 SEVENTEENTH CENTURY DRAMA *3 semester hours*
Selected works of Lope de Vega, Tirso de Molina and Calderon will provide the basis for reading and study of this era.

358 CONTEMPORARY SPANISH LITERATURE *3 semester hours*
Representative authors from the generation of 1898 to the present have been chosen for this course. Selected readings and analysis of their works will be included.

359 SPANISH AMERICAN LITERATURE *3 semester hours*
With the increasing emphasis on Spanish-American culture and relationship, a study will be made of representative authors and their works from the colonial period to the present. It is recommended that the "History of Latin America" be elected for background prior to this course.

360 MASTERPIECES OF SPANISH LITERATURE *3 semester hours*
The literature of Spain in the Middle Ages is exemplified by *El poema del Cid, El libro de buen amor* and *La Celestina* in this course. A knowledge of Latin is recommended background to the student electing this course.

361 LITERATURE OF THE SPANISH RENAISSANCE
3 semester hours

The Amadis and other representative works of prose and poetry of the Spanish Renaissance are stressed.

DEPARTMENT OF GEOGRAPHY

441 PRINCIPLES OF PHYSICAL GEOGRAPHY *3 semester hours*

The fundamental aims of this course include an emphasis upon basic geographic principles and a broad overview of the field of geography. To attain these aims the student is introduced to geographic factors in land forms, location, climate soils, minerals, flora and fauna together with examples of their influences upon and relationships to man and his activities.

447 PRINCIPLES OF CULTURAL GEOGRAPHY *3 semester hours*

Cultural Geography aims at understanding the relationships between man and the land. It treats of the importance of settlement patterns, agricultural and economic activities, raw materials, resources, understanding development and trade as they affect the everyday life of the average man. Some consideration is also given to problems such as urbanization, pollution, conservation, and patterns of change, political, social, and economic.

444 GEOMORPHOLOGY *3 semester hours*

Emphasis is placed upon the study of the earth's surface features by examining their structure, by studying the processes that have been active in their formation, and by analyzing the ways in which they affect man and are affected by man.

445 CLIMATOLOGY *3 semester hours*

The major aim of the course is to gain an understanding of world climatic regions. The first half of the semester is devoted to climatic principles; during the last half of the semester the application of these principles is stressed to learn world climates. The making of climatic charts and maps forms an important element in the course.

442 GEOGRAPHY OF ASIA *3 semester hours*

A geographic analysis is made of the physical and cultural environments of the various countries. Emphasis is placed on the rapid changes, developments, and problems confronting each nation today.

448 GEOGRAPHY OF EUROPE *3 semester hours*

The arrangements and distribution of both physical and cultural features of the continent are first studied. This is followed by detailed consideration of the geographic nature of the individual countries.

431 POLITICAL GEOGRAPHY *3 semester hours*

The significance of geographic elements in the growth and structure of nations is analyzed. General consideration is also given to the importance of physical and cultural environment in the development of the political pattern of the world. Detailed studies are made of a few selected countries.

432 ECONOMIC GEOGRAPHY *3 semester hours*

A study is made of the geographic elements contributing to the localization of economic activities. The distribution, conditions of production, and trade in some of the primary commodities is studied in detail.

446 REGIONAL GEOGRAPHY—WESTERN HEMISPHERE
3 semester hours

This course is a regional treatment of the political and cultural geography of

the Western Hemisphere. Special attention is given to the changing character of the Anglo-American landscape and the attendant political and cultural significance of these changes. The contributions of Latin-American regions to hemispheric solidarity and their political and social problems are treated in the second half of the semester.

446 REGIONAL GEOGRAPHY—EASTERN HEMISPHERE *3 semester hours*

The first half of the course is concerned with the nature of the Central Eurasian Barrier, its extent, and the effect of it on the countries to the north and south of it.

The second half of the semester deals with such problems as the emerging importance of the Mediterranean region of Africa and Southeast Asia. Other problems include the political and cultural developments in the Nile Basin and its margins, the eastern plateau region, the great southern highlands, and the Basin of Africa. Some attention is given to the political and social problems present in these regions.

449 URBAN GEOGRAPHY *3 semester hours*

This course deals with the origin, growth and development of cities and urbanized areas. The geographic factors influencing the location of cities and the central place theories are analyzed. The formal pattern of cities, the changing function of cities, urban problems and urban planning are also studied in this course.

DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

251 PHYSICAL EDUCATION: MEN (FIRST YEAR) *1 semester hour*

The development of health, poise, self-reliance, skill, leadership, and recreational interests is the purpose of the program. Opportunity to develop fundamental skills in a variety of activities is provided. The history and rules of various sports activities will be considered.

252 PHYSICAL EDUCATION: WOMEN (FIRST YEAR) *1 semester hour*

Through a program of body mechanics sports, dancing, and other recreational activities, it is expected that the students will develop poise, good posture, self-confidence, leadership, skill, and physical fitness.

257 HEALTH EDUCATION: MEN I & II *2 semester hours*

258 HEALTH EDUCATION: WOMEN I & II *2 semester hours*

Problems and practices in personal and community hygiene are studied and discussed to aid the students in personal adjustment to college life and community. Current events in health supplement the class discussions.

253 PHYSICAL EDUCATION: MEN (SECOND YEAR) *1 semester hour*

The work of the second year follows closely that of the first year. Additional emphasis is placed upon exercises and tumbling activities appropriate to the elementary and secondary school programs.

254 PHYSICAL EDUCATION: WOMEN (SECOND YEAR) *1 semester hour*

The work of the sophomore year in physical education continues that of the first year. It is expected that each student will work directly for her own development in poise, skill, leadership, and health, and will utilize knowledge of recreational sports in planning personal activities. Skill in the various sports activities is improved.

DEPARTMENT OF HISTORY

611 HISTORY OF WESTERN CIVILIZATION *6 semester hours*

The purpose of this course is to familarize the student with the important developments in the history of European civilization. Among the topics to be studied in the first semester are: prehistoric man and the dawn of civilization, Eastern Mediterranean civilizations, the culture of the Roman Empire, the rise of Christianity and Islam, Feudalism, church and state in the Middle Ages, the Renaissance and the Reformation; in the second semester: the commercial revolution, the expansion of Europe, the intellectual revolution, the industrial revolution, the French Revolution and its consequences, the growth of democracy, imperialism, the World Wars, the world today.

621 UNITED STATES HISTORY AND GOVERNMENT *6 semester hours*

Topics studied in this course are European influences in the colonization of America, the American Revolution and the formation of new government, westward expansion of the United States, the Civil War, the economic revolution following the war, the reaction against the new economic forces, the breakdown of industrialism, and the "New Deal." The course uses the facts of American history and government as a foundation for a solid interpretive study of those political, social, economic, diplomatic, and cultural movements which have been important in the creation of the society in which we live. State and national governmental organization and function are studied as an integral part of the course.

625 WESTERN EUROPE, 1815–1914 *3 semester hours*

A review of special phases of the political, social, and intellectual development of the Western European countries in the period since 1815.

624 DIPLOMATIC HISTORY OF MODERN EUROPE *3 semester hours*

This course examines the causes of World Wars I and II and attempts a synthesis of the international relations of the Great Powers as revealed in the political impasse of our times. Contributing topics include: nationalism, industrialism, militarism and navalism, the alliance system, collective security, totalitarianism, economic depression, and technology. The problems of the present foreign policy of the United States will be related to the foreign policies of the Great Powers, region by region.

676 COLONIAL HISTORY *3 semester hours*

This course begins with the European background and the reasons for the colonization of North America. Intercolonial rivalries are considered, as are British colonial policy, the development of individual colonies, and the pattern of English-American culture.

675 ANCIENT HISTORY *3 semester hours*

This course provides for an intensive study of some of the significant periods: Egypt in the Pyramid Age, the Age of Pericles, Alexander's Empire, the Augustan Age. Under each period, industry and commerce, government, art, literature, and social organization are considered.

677 HISTORY OF UNITED STATES FOREIGN POLICY *3 semester hours*

This course seeks to give the student an understanding of the determination and implementation of United States foreign policy through detailed historical analysis of significant themes and basic concepts.

672 ENGLISH HISTORY *3 semester hours*

This course is designed to acquaint the student with the basic history of England and the development of its political structure. The growth of the party system will be examined together with the evolution of the cabinet, the development of English society, and the contributions of outstanding individuals.

685 CULTURAL HISTORY OF EUROPE *3 semester hours*

A review of special phases of the political, social and intellectual development of the Western European countries will serve as the basis for this course.

684 HISTORY OF LATIN AMERICA *3 semester hours*

This course consists of a survey of Latin American history stressing the evolution of cultural and political patterns which define Latin American societies. The course is designed to clarify contemporary economic, political and cultural problems which confront a region undergoing rapid change.

683 MODERN RUSSIAN HISTORY *3 semester hours*

This course will examine the major political, intellectual and diplomatic currents of Russian history from Kievan times to the present. Special attention will be devoted to Soviet foreign policy since 1917 with the emphasis on organizational features, strategies and objectives pursued by Soviet diplomacy.

682 MODERN FAR EAST HISTORY *3 semester hours*

This course seeks to give the student an appreciation of a great civilization radically different from our own, and a clearer understanding of the complex problems of the Far East and of American policy there. The approach is interdisciplinary but based on an historical framework. The focus is on China and Japan, but Korea and Southeast Asia are also included. Special attention will be devoted to the emergence of democracy, intellectual developments and Communism.

695 EARLY NATIONAL PERIOD OF THE UNITED STATES, 1783–1829 *3 semester hours*

A study of selective themes in the era of revolution, the War for Independence, the Confederation, the Federalist and Jeffersonian regimes, and the rise of American nationality in the era of good feelings.

694 TWENTIETH CENTURY U.S. HISTORY *3 semester hours*

This course deals with the contemporary American civilization as seen in its recent historical development. Among the topics to be reviewed will be America in World Wars I and II, the economic, social and intellectual developments of the 1920's, the great depression, the New Deal, the era of Truman and Eisenhower, and America in the Cold War.

645 ECONOMIC AND SOCIAL HISTORY OF THE UNITED STATES *3 semester hours*

The study of the development of American civilization. Topics include the westward movement, transportation improvements, agricultural expansion, the industrial revolution, immigration, urbanization.

635 EUROPE SINCE WORLD WAR I *3 semester hours*

A course in political developments and institutional changes from 1914 to the present. The heritage of the nineteenth century transmuted to an indefinite future is the fundamental theme.

687 U.S. CONSTITUTIONAL HISTORY *3 semester hours*

This course seeks to present the major issues and principles of American Constitutional History that have made our federal constitution a vital force in the development of our nation, as well as the important men and ideas that have influenced decision-making in the Supreme Court.

DEPARTMENT OF SOCIAL SCIENCE

451 INTERNATIONAL RELATIONS I & II *6 semester hours*

Current world affairs will be reviewed to determine the elements of national power and the factors that influence formulation and execution of foreign policy.

Against the background of World War II and the Cold War the foreign policies of selected powers will be studied while area studies will clarify the problems of current United States foreign policy. The problems of peace and security will be approached through the study of international organizations.

462 MODERN EUROPEAN AND ASIAN GOVERNMENTS *3 semester hours*

This course will include a comparison and analysis of institutions and administrative procedures by which decisions are made and implemented. The comparison of party structure and functions, government use of mass media, and support of scientific research will be considered. The influence of political parties, public opinion and mass media on government will be evaluated.

453 ECONOMICS *3 semester hours*

The basic objective of this course are to enable students to understand the nature of the American economy and its persistent problems of growth and stability. Content includes analysis of the national income; the study of demand, supply, and price; the organization of industry; money and banking; monetary and fiscal policy; and international trade. The principles will be illustrated through solution of selected problems. Stress will be laid on the American economy as a whole.

455 SOCIOLOGY *3 semester hours*

This course is designed to acquaint the student with man's cultural heritage, the environmental and biological forces that shape personality, the influence of the group on the individual, the nature of social institutions, and the character of social change. Stress is placed upon contemporary American society.

461 SOCIOLOGY OF THE FAMILY

A structural and functional approach to the analysis of family systems with particular emphasis upon the middle-class American, Negro, Irish and Chinese family systems.

460 CULTURAL ANTHROPOLOGY

A general introduction to the major cultures of the world; a study of the nature of cultural systems through an analysis of the American Indian and of at least one major area outside the New World.

DEPARTMENT OF MATHEMATICS

511 ELEMENTS OF MATHEMATICS *3 semester hours*

This course is intended to help those students who need a thorough understanding of the fundamentals of basic mathematics, including arithmetic, algebra, geometry, and numerical trigonometry.

512 COLLEGE MATHEMATICS I AND II (Liberal Arts) *6 semester hours*

This program is intended to convey the nature and spirit of mathematics from the current or "modern" point of view. The course describes the different

number systems. It gives an intuitive approach to set theory, Boolian algebra, and logic. It also includes an introduction to analytic geometry, calculus, and matrices.

513 COLLEGE ALGEBRA *3 semester hours*

This is a study of certain properties of the real number system based upon set-theoretical foundations. The course covers linear, quadratic, and simultaneous equations, exponents, inequalities, absolute value, complex numbers, determinants, mathematical induction, the binomial theorem, permutations and combinations, series, probability, and statistics.

514 COLLEGE TRIGONOMETRY I AND II *6 semester hours*

In this course the student will be given a substantial treatment of plane trigonometry which will be especially useful to those students who are preparing to teach mathematics in the secondary schools. Topics to be studied will include trigonometry of the general angle, the use of logarithms, solution of right triangles, solution of oblique triangles, radian measure, and other topics.

515 ANALYTIC GEOMETRY *3 semester hours*

A study is made of the essential classical topics of analytic geometry with emphasis on graphs and their uses, and on applications to empirical curve fitting. This course is especially designed to be of help to those majoring in mathematics.

519 DIFFERENTIAL CALCULUS *3 semester hours*

Introduction to analytic geometry and differential calculus; derivatives of polynomials; product, fraction, and chain rules; limits and continuity; curve sketching, application to maximum and minimum and rate problems.

517 INTEGRAL CALCULUS I *3 semester hours*

Infinite and definite integral, differentiation and integration of sines and cosines; applications of integral calculus, including area, volume, and arc length.

521 MODERN MATHEMATICS I AND II *6 semester hours*

Introduction to modern algebra and mathematical logic, logical development of the real and complex number systems, and introduction to modern geometry make up the first half of this course.

Abstract algebra, algebraic systems, groups, integral domains, rings and fields constitute the material for the second half of the course.

516 ORDINARY DIFFERENTIAL EQUATIONS *3 semester hours*

A study is made of the theory and applications of ordinary differential equations of the first and second orders, with particular emphasis on the linear constant-coefficient type. An introduction is made to partial differential equations.

525 LINEAR ALGEBRA *3 semester hours*

A systematic study of the solution of simultaneous equations by means of matrices and determinants is made. The necessary material from matrix theory and determinant theory will be developed. The elementary properties of vector spaces will also be introduced.

526 ADVANCED CALCULUS III. ***1st Semester Junior***
(Solid Analytic Geometry and Vector Analysis) (Math Analysis III)
3 semester hours

A continuation of Calculus 11, this course includes the study of the analytic geometry of the conic sections, hyperbolic functions, polar coordinates, solid analytic geometry, and elementary vector analysis.

527 **ADVANCED CALCULUS IV.** *2nd Semester Junior*
(Calculus of Functions of More than One Reason Variable)
(Math Analysis IV) *3 semester hours*
A continuation of Calculus 111, this course covers partial differentiation, multiple integration, infinite series, and complex numbers and function.

DEPARTMENT OF PSYCHOLOGY AND PHILOSOPHY

711 **GENERAL PSYCHOLOGY** *3 semester hours*
The objective of this course is to present the principles of general introductory psychology with emphasis on psychology as a fundamental science with application to selected problems of everyday life. The course encompasses units of study in the following areas: scientific methods of studying human behavior, the brain and the nervous system, techniques of study, maturation and development, attention and perception, learning and remembering, frustration and conflict, social behavior and personality development.

712 **CHILD GROWTH AND DEVELOPMENT** *3 semester hours*
This course offers opportunity to study the processes of growth in the human organism from conception to age twelve, the sequential patterns of growth with characteristics of children at specific ages, and the interaction of heredity and environment on behavior and anatomical development. Emphasis will be on the emerging personality of the individual child.

713 **EDUCATIONAL PSYCHOLOGY** *3 semester hours*
A functional study is made of the problem of growth, learning, and guidance from the viewpoint of mental hygiene. Among the topics considered are: the learning process, relationship of intelligence and achievement, personality, and adjustment to living with specific reference to teaching and special emphasis on the results of modern research.

715 **PSYCHOLOGY OF ADOLESCENCE** *2 semester hours*
A general survey is made of the physical, mental, and socio-moral aspects of adolescence. Among the topics considered are the adolescent and his emotions, his interests, ideals, and ambitions. Directed individual observations and study of the adolescent form the basis of the course. Independent case studies of junior high and high school pupils are undertaken by each student under the guidance of the instructor.

716 **PHILOSOPHY** *3 semester hours*
The aims of this course are to acquaint the student with the general problems of philosophy, the principal philosophic methods and the great philosophers. Cosmology, ontology, logic, epistomology, ethics and aesthetics, and the various philosophic schools will be emphasized.

SCHOOL LIBRARY SCIENCE

Student must arrange with the College Librarian for an interview and assignment to staff advisor.

194 **INTRODUCTION TO REFERENCE SOURCES AND METHODS** is intended to acquaint the student with the fundamental philosophy and techniques of reference service in the school library. The content and use of the basic reference tools are taught and students use the college library to solve practical reference problems. *3 semester hours*

195 **ORGANIZATION AND ADMINISTRATION OF THE INSTRUCTIONAL MATERIALS CENTER** covers the theory and practice of organizing and administering a library of materials and a program of service fundamental to the achievement of educational goals in elementary, junior high, and senior high schools. *3 semester hours*

It also familiarizes students with instructional materials used in the modern school and often administered by the librarian. Films, recordings, filmstrips, slides, tapes, transparencies and many other materials are covered with an emphasis on building, organizing, loaning, and publicizing a collection of these non-book materials. Practice is provided in the use of materials and equipment.

196 **LIBRARY CATALOGING AND CLASSIFICATION** covers the principles and practice of cataloging books using the Dewey Decimal system of subject classification, *Sear's List of Subject Headings* and the *ALA Cataloging Rules for Author and Title Entry*. A brief introduction to technical processes for the small library and methods of indexing non-book materials commonly found in the modern school library is included. *3 semester hours*

197 **THE LIBRARIAN IN THE MODERN SCHOOL** prepares the school librarian to assist the classroom teacher in assembling and introducing materials of all types now found in the modern school library for use by pupils and teachers, both in and outside of the classroom. The principles involved in relating these resources to curriculum requirements will be applied through practice in preparing and presenting a resource unit. *3 semester hours*

198 **SELECTION AND USE OF LIBRARY MATERIALS** is intended to acquaint the student with the principles and techniques of evaluation, selection, and acquisition of books and related materials appropriate for the library in the elementary school. *1 semester hour*

This course is intended to supplement the course in Children's Literature (2 sem. hrs.) and to provide the additional background needed by those students working toward a school librarian's certificate.

199 **STUDENT TEACHING AND LIBRARY PRACTICE WORK** affords the student an opportunity for work in a cooperating school library. Prerequisites: *Introduction to Reference Sources and Methods, Selection and Use of Library Materials, Library Cataloging and Classification, and Organization and Administration of the Instructional Materials Center.* *3 semester hours*

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I am interested in Worcester State College.
Please send me an application form.

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WORCESTER STATE COLLEGE